

DERWENT-ACC-NO: 2001-032201

DERWENT-WEEK: 200421

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TITLE: Magnetic recording medium and  
production method therefor  
and magnetic recording device

INVENTOR: DJAYAPRAWIRA, D; SHOJI, H ; TAKAHASHI, M ;  
YOSHIMURA, S

PATENT-ASSIGNEE: TAKAHASHI M[TAKAI] , TAKAHASHI K[TAKAI]

PRIORITY-DATA: 1999JP-0333529 (November 24, 1999) ,  
1999JP-0150424 (May 28,  
1999)

PATENT-FAMILY:

PUB-NO	PAGES	MAIN-IPC	PUB-DATE	LANGUAGE
US 6709775 B1	000	G11B 005/66	March 23, 2004	N/A
WO 200074042 A1	102	G11B 005/738	December 7, 2000	J
JP 2001052330 A	036	G11B 005/738	February 23, 2001	N/A
EP 1211674 A1	000	G11B 005/738	June 5, 2002	E

DESIGNATED-STATES: US AT BE CH CY DE DK ES FI FR GB GR IE IT  
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APPLICATION-DATA:

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US 6709775B1	May 29, 2000	N/A	2000WO-JP03436
US 6709775B1	November 28, 2001	N/A	2001US-0979851
US 6709775B1	N/A	Based on	WO 200074042
WO 200074042A1		N/A	2000WO-JP03436

May 29, 2000		
JP2001052330A	N/A	1999JP-0333529
November 24, 1999		
EP 1211674A1	N/A	2000EP-0931598
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INT-CL (IPC): B05B005/12, C23C014/00 , C23C014/34 ,  
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G11B005/85 ,  
H01F010/16

ABSTRACTED-PUB-NO: WO 200074042A

# EQUIVALENT-ABSTRACTS:

NOVELTY - A magnetic recording medium capable of restricting the effects of thermal agitation by simultaneously reducing an average grain size of magnetic crystal grains constituting a ferromagnetic metal film and their standard deviation without changing the film thickness of a metal substrate layer and the film thickness of a ferromagnetic metal layer forming a recording layer a production method therefor, and a magnetic recording device. The magnetic recording medium comprises a ferromagnetic metal layer consisting of a cobalt base alloy formed on a base material via a metal substrate layer mainly consisting of chromium, characterized in that a seed layer containing at least tungsten is provided between the base material and the metal substrate layer and the seed layer is a island-formed film. The above structure requires that the seed layer preferably contain chromium in addition to tungsten. The production method for the medium comprises an intermediate processing step consisting of a process D of dry-etching the base material and a process S of

depositing the seed layer on the base material.

USE - None given.

CHOSEN-DRAWING: Dwg.1/25

DERWENT-CLASS: L03 P42 T03

CPI-CODES: L03-B02A5; L03-B05;

EPI-CODES: T03-A01A; T03-A01B1X; T03-A02A3;

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May 29, 2000		
EP 1211674A1	N/A	2000WO-JP03436
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EP 1211674A1	Based on	WO 200074042
N/A		

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G11B005/65 ,  
G11B005/66 , G11B005/70 , G11B005/738 , G11B005/84 ,  
G11B005/85 ,  
H01F010/16

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USE - None given.

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DERWENT-CLASS: L03 P42 T03

CPI-CODES: L03-B02A5; L03-B05;

EPI-CODES: T03-A01A; T03-A01B1X; T03-A02A3;